ABSTRACT OF THE DISCLOSURE

In the bus initialization phase, the state is transferred to the reset start state (i.e., R1 state) first, and a bus reset signal is sent to all the connected partners for a predetermined period of time determined by the reset_time (ranging from $1.26f\hat{E}m$ at the shortest to $1.40f\hat{E}m$ at the longest). When it is acknowledged that bus reset signals have been received from all the connected partners and a predetermined period of time has elapsed, the state is transferred to the reset wait state (R1 state). In this arrangement, there is no fear that an IDLE signal received in a reset wait state from a partner connected by use of a long cable will result in an erroneous transfer to a tree identification phase, and the bus reset signal will be received from the connected partner at the tree identification phase so as to return again to the R0 state at the bus initialization phase.

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